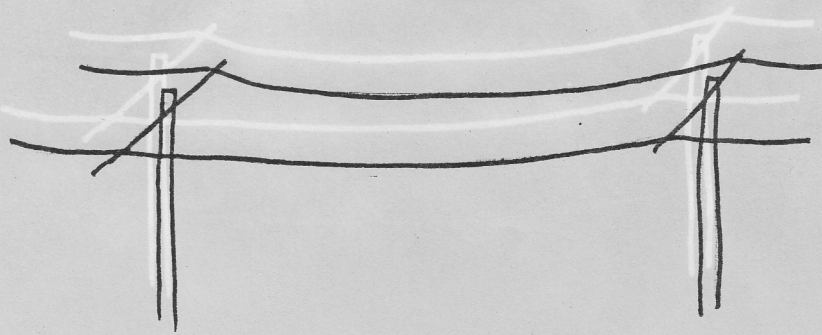
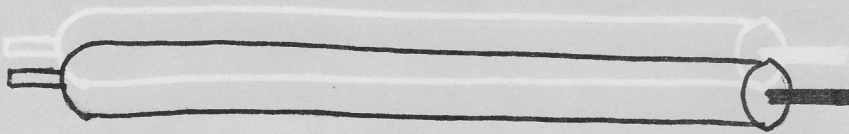


# Radio Telecommunications and the IBM Personal Computer

- What it is
- What it is Radio implementation
- An Amateur Radio implementation
  - ° Generalized system
  - ° Specialized system



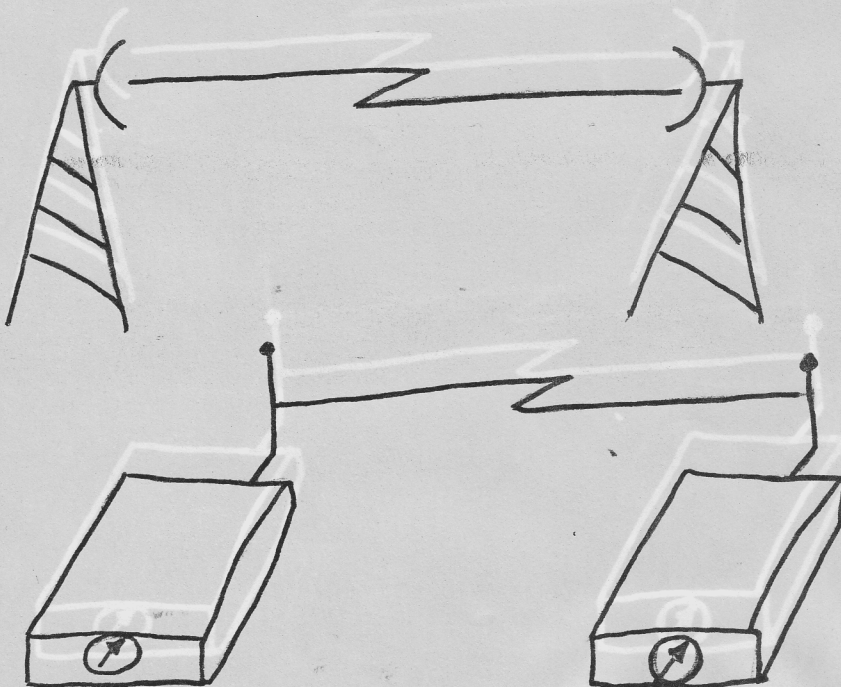
TELEPHONE  
TELEPHONE  
LINES



COAX OR  
COAXIAL OR  
TWINAX  
CABLE



FIBER OPTIC  
FIBER OPTIC  
CABLE



MICROWAVE  
MICROWAVE  
SATELLITE  
SATELLITE  
LINKS

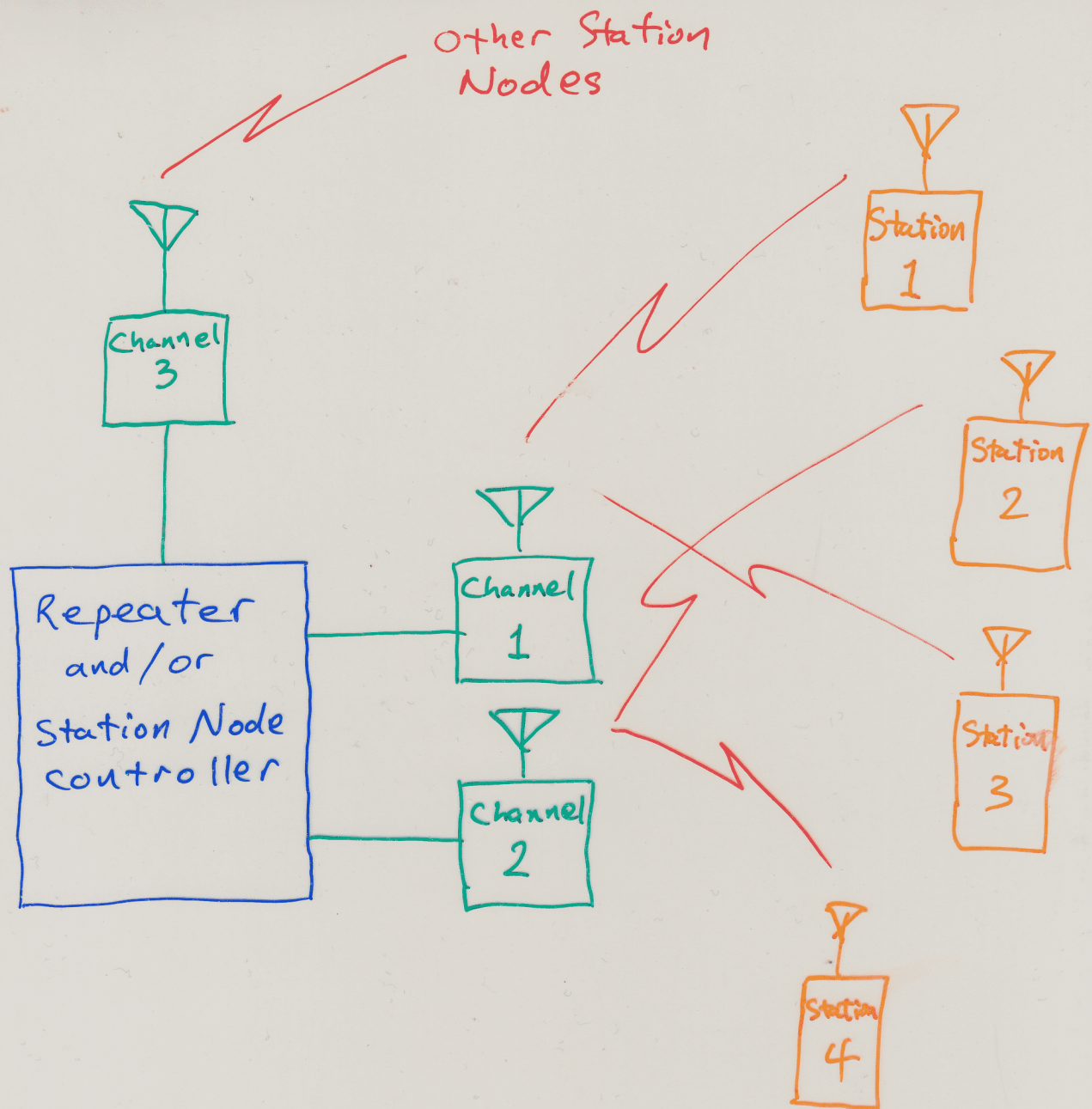
RADIO  
RADIO

TRANSMISSION MEDIA  
TRANSMISSION MEDIA

# APPLICATIONS

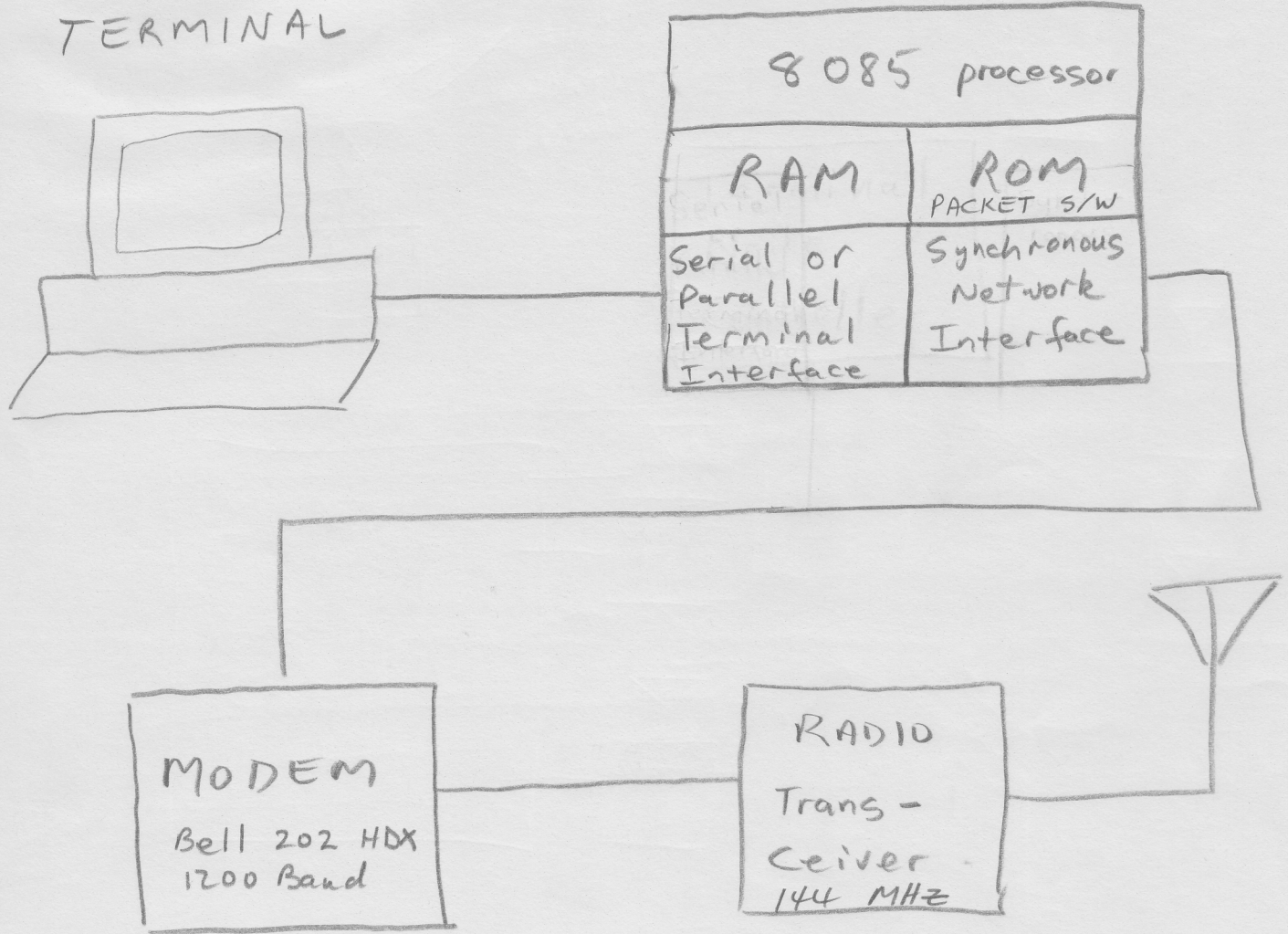
## APPLICATIONS

- **Typed conversations**
- **Data file transfer**
- **Remote bulletin board system (RBBS)**
  - **Messages**
  - **Information**
  - **Programs**



Packet Radio Network

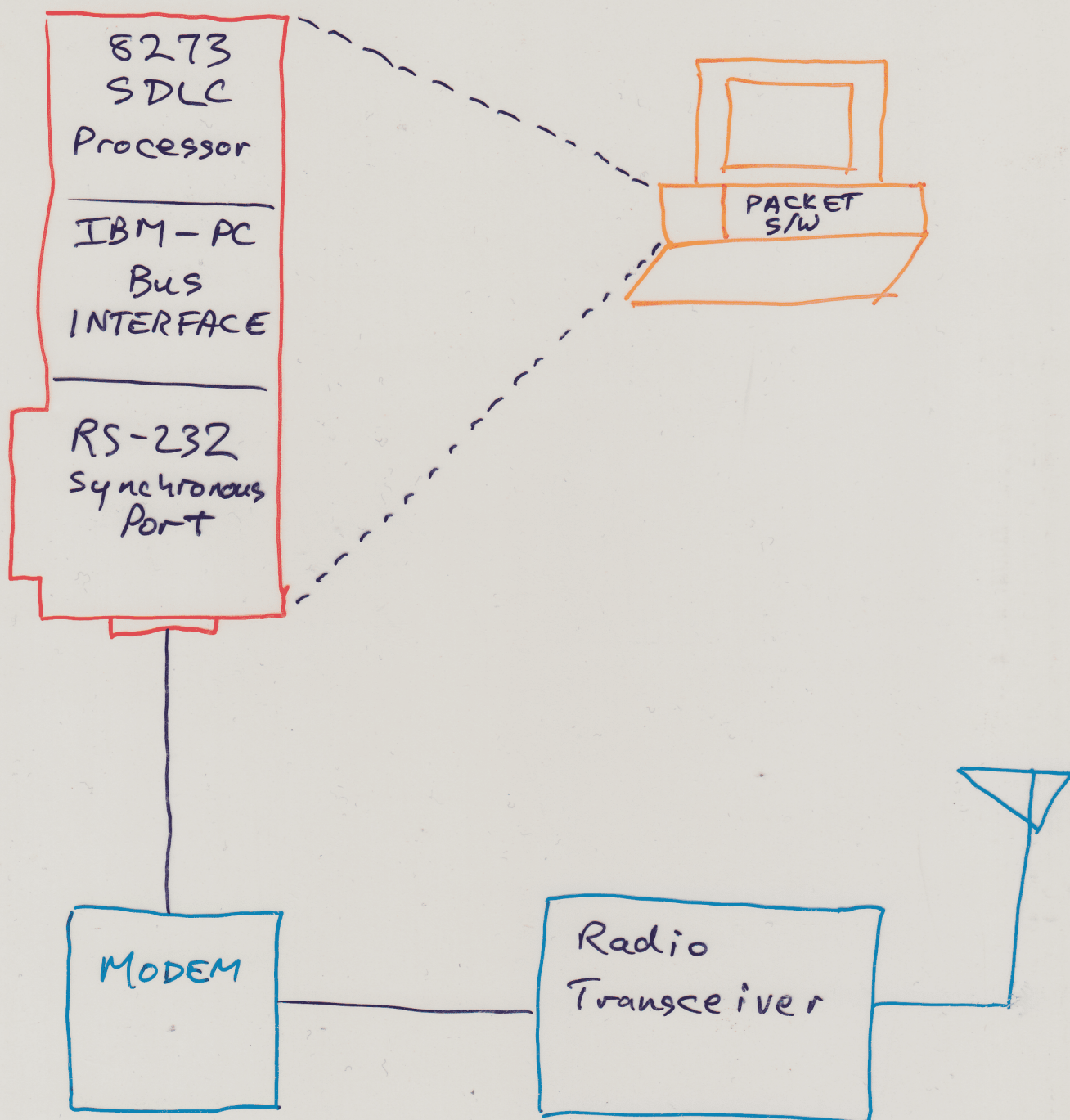
## Terminal Node Controller



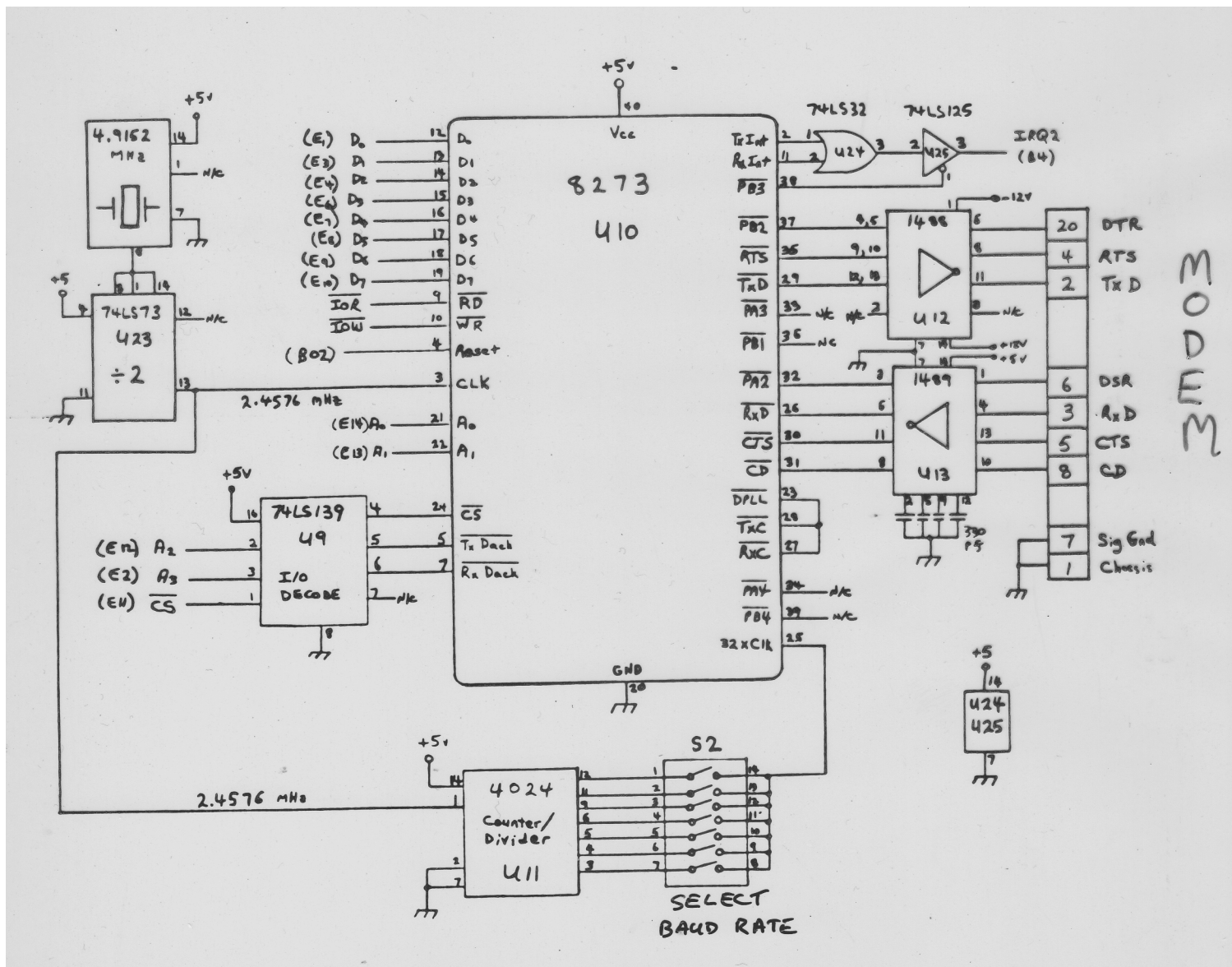
Traditional Packet Radio Station

PROTOTYPE  
BOARD

PC



All Terminal Node Controller Functions  
moved into the PC.



## Status of Amateur Packet Radio

- Layers 1 and 2 (Physical and Link layers) implemented
- Layers 3, 4, and 5 (Network, Control, and Transport end-to-end) under development
- 1200 Baud links currently in use, higher speeds (4800, 9600 Baud) planned
- Future plans include world-wide networking, using amateur satellite links.